

## Millions of 1960 Pennies Valuable Because of Flaw

Washington (UPI)—Take a close look at your pennies. They may be worth their weight in gold.

Eagle-eyed coin experts have put a value of \$8 or more on millions of 1960 pennies because of a flaw in the date.

The coin expert said the Philadelphia mint turned out 2 million pennies with the irregular date and the Denver mint 3 million before the dies were changed.

"I don't recall in the 20th century the mint making a whole new die," Douglas said.

Both mints now are turning out pennies with all characters in the date the same size.

Similar mistakes on coins or stamps in the past have produced valuable collectors items.

## Hillsboro Speeder Gets Fine, Sentence

Spokane (AP)—Vernon A. Van Graven, 22, Hillsboro, Ore., who led officers on a 100-mile-an-hour chase here Sunday, was sentenced to two months in the county jail and fined \$250 here Monday.

Justice of the Peace Ellisworth Gump Jr. also revoked Van Graven's driver's license for a year. The youth is a junior-to-be at Pacific university.

## LONG STRIKE ENDS

Tokyo (AP)—The longest and bloodiest labor dispute in Japan's history has been halted, at least temporarily. The Mitsui Coal Mining Co. Monday night accepted a week-long government truce proposal to suspend a lockout at the Mike colliery at Omuta in southern Kyushu that had lasted 183 days. Workers will return to work for a week while negotiations proceed in the strike during which hundreds of police and miners were injured.

# MEDFORD MALL TRIBUNE

SECTION B

MEDFORD, OREGON, WEDNESDAY, JULY 27, 1960

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## Thermal Neutron Bringing Man Closer to Cancer Fight Victory

Washington (Science Service)—An atomic tool, the thermal (slow) neutron, is bringing man closer to victory in his fight against cancer.

Neutrons are electrically neutral, high or fast-energy particles that trigger atomic reactors and bombs. Thermal neutrons are developed by passing fast neutrons of 8 million electron volts each through a moderator or nuclear reactor which slows them by cutting down their voltage to .025 electron volts.

Thermal or slow neutrons produced in the special medical reactor at Brookhaven National Laboratory at Upton, L.I., N.Y., are providing a wholly successful therapy in treating experimental tumors in mice.

**Therapy Effective**  
The therapy also has been significantly effective in treating glioblastoma multiforme, a fatal human brain cancer, which has proved un-

responsive to x-ray, surgery or other cancer therapy.

Its effectiveness in mice and men gives hope of future success in treating localized, deep-seated cancers that cannot be surgically removed or otherwise treated. Dr. Lee Farr, medical director at the Brookhaven laboratory and a specialist in nuclear medicine, said in an interview.

Brookhaven's use of slow neutrons in treating cancer is the result of more than ten years of experimental and clinical research under Dr. Farr's direction.

**Neutrons Captured**  
Previous research by others had revealed the thermal neutrons can be captured by atoms such as uranium, lithium and boron. Normally, the total distance traveled by the free thermal neutron is approximately the diameter of a living cell. Its capture both shortens its path and disintegrates the neutron into two

heavy particles, alpha and lithium-7, neither of which are radioactive or harmful. This known behavior makes it possible to control the reaction and limit it.

A patient first receives an injection of boron into his blood stream. After half an hour, a cloud of the slowed-down neutrons is passed on to the area treated for a matter of minutes, less than ten. Trapped by the boron, the neutrons pass only half-way through the diseased cells and destroys them.

"They do not appear in any way adversely to affect healthy tissue or blood," Dr. Farr said. "It is a one-shot treatment and for complete effectiveness, the thermal neutrons must penetrate every cell of the diseased area in sufficient numbers and within the specified time."

The small size of mice permits an easy solution to this problem of "penetration in

depth and time," as Dr. Farr describes it. By means of thermal neutron therapy, cancers in mice are destroyed all will at Brookhaven without any recurrence of the disease in the normal two- to three-year life span.

The size of man presents a different engineering problem, which has proved more difficult to solve. Thirty-five cancer sufferers with advanced stages of severe malignant brain tumors unresponsive to other treatment were referred to Brookhaven by their physicians for thermal neutron treatment. Most of these were stretcher patients who after the one-shot treatment were able to walk out of the Laboratory and resume normal activities. However, in time, all the human patients succumbed to the tumor, which examination showed had not been completely penetrated by the neutrons in numbers sufficient to destroy all diseased tissue.

The difficult-to-treat human brain cancer was selected for treatment by Dr. Farr and his staff because "it is common enough to afford selective material; the short life expectancy of its victims allow us to know within a year the results of our efforts; and no other treatment is known to be effective."

**Far From Success**  
"While we are far from achieving the success in treating men that we have demonstrated in treating mice, we have been able to provide patients with a substantial period in which he may be both comfortable, active and productive."

Dr. Farr believes the solution is attainable and may require a better designed reactor as well as more research on the physiology of the reaction in the therapy. Currently a medical reactor that meets Dr. Farr's specifications is under design and is expected to be constructed in the next five years.

Meanwhile, the dramatic although limited success in treating and temporarily arresting the deteriorating human brain cancers has encouraged Dr. Farr and his staff to use the thermal neutron therapy in other varieties of cancer suffered by man. Because there is no observable radiation damage from this therapy, it may be used on patients who have not responded with complete success to x-ray therapy.

Cancer patients treated at Brookhaven are referral patients only. It is too early to estimate accurately the effectiveness of the therapy on recently treated patients.

It takes a "team effort" of 150 persons, engineers, technicians and scientists, to give a thermal neutron treatment to a single patient.

## Klamath Falls Man Arrested in City

Medford police arrested a 50-year-old Klamath Falls man Monday on a charge of probation violation.

The man, James Ralph Hall, was arrested by police on orders of District Attorney Tom Reeder. Terms of the probation on a previous check conviction were that Hall refrain from violating liquor laws and make restitution on a bad check, according to police.

Hall has reportedly not yet made restitution on the check and has also recently been arrested on a drunk in public charge. He was confined in the county jail.

Washington (UPI)—A special committee of the Organization of American States has selected San Jose, Costa Rica as the site and Aug. 15 as the date of hemisphere foreign ministers meeting on the U.S.-Cuban crisis and Venezuelan charges against the Dominican Republic.

# ANDY'S MOVING SALE

Men's and Women's <b>Bill Folds</b> <b>\$2<sup>88</sup></b>	Men's <b>Shaving Kit</b> <b>\$3<sup>95</sup></b>	Desk <b>Calendar</b> <b>\$2<sup>50</sup></b>
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Handy <b>Baby Tender</b> <b>\$5<sup>88</sup></b>	Record Player and Transistor <b>Combination</b> <b>\$56<sup>88</sup></b>	<b>POWEREX</b> BINOCULARS <b>\$3<sup>50</sup></b>

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